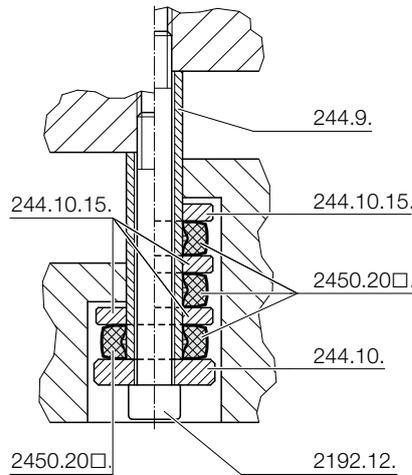


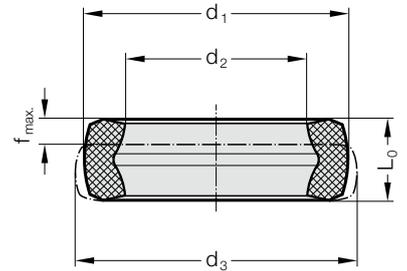
# DAMPER, HEAVY-DUTY



## Mounting example



## 2450.20□.



### Description:

The co-polyester elastomer dampers, heavy-duty, are used as hold-down dampers in the automotive and white goods industry. Increasing return stroke speeds and the related stresses on screws and bolts in moveable, suspended tool parts are absorbed by the hold-down dampers. Reduced noise emission is a further additional positive sideeffect.

### Benefits:

- High absorption of force and energy
- Slight settlement
- Energy absorption between 5 Nm and 269 Nm
- Long service life and high level of operating safety
- Noise reduction
- High degree of effectiveness

### Material:

Co-Polyester-Elastomer

### Technical data:

Surroundings: Resistant to microbes, seawater, chemicals.

No absorption of water and no swelling.

Grease and oil resistant.

Approved temperature range: -40°C to +90°C (-40°F to +194°F)

### Note:

Socket cap screw 2192.12. see Section C

Spacer tube 244.9. see Section F

Washer 244.10. see Section F

## 2450.20\_ Damper, heavy-duty

Order No	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	L <sub>0</sub> **	F <sub>max.</sub> [N] (static)	L <sub>BL</sub>	W [Nm/stroke (s)]*
2450.20A.0264.0163.078	26.2	16.3	28.4	7.7	5,500	5.5	5
2450.20B.0321.0203.108	32.1	20.3	35.1	10.8	9,000	6	14.2
2450.20B.0458.0253.170	46.3	25.3	49.8	17.7	20,000	11.6	44.6
2450.20A.0546.0303.213	54.6	30.3	61.8	21.6	30,000	13	81.9
2450.20A.0618.0363.215	61.8	36.3	69.9	21.5	46,000	13.2	126.5
2450.20A.0785.0423.294	78.2	42.3	89	30	75,000	17.9	269
2450.20A.1003.0553.327	99.5	55.3	115	33.2	97,000	16.5	370

\*Total energy per stroke

\*\*The dimension L<sub>0</sub> is the manufacturing dimension, which must not be used for the calculation.

The limit of L<sub>0</sub> depends on the thickness and can be between ±0.3 mm and ±1.

Temperature fluctuations can also have an influence on the thickness.